PATENT

THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.:

10/785,067

Filing Date:

February 25, 2004

Applicant:

Eun Joo Jang et al.

Group Art Unit:

2822

Examiner:

Christy L. Novacek

Title:

THE IMPROVEMENT OF THE LUMINESCENT EFFICIENCY OF SEMICONDUCTOR NANOCRYSTAL

COMPOUNDS BY SURFACE TREATMENT

Attorney Docket:

6661-000039/US

Customer Service Window Randolph Building 401 Dulany Street Alexandria, VA 22314 Mail Stop Amendment September 22, 2006

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicant hereby submits an Information Disclosure Statement for consideration by the Examiner.

I. <u>LIST OF PATENTS, PUBLICATIONS, AND OTHER INFORMATION</u>

The patents, publications and other information submitted for consideration by the Office (except unpublished U.S. patent applications) are listed on Form PTO-1449 attached hereto.

II. COPIES

A. Submitted herewith is a legible copy of (i) each foreign patent; (ii) each
publication or that portion which caused it to be listed, other than U.S. patents and U.S.
patent application publications unless required by the Office; (iii) for each cited
pending unpublished U.S. application listed below in Section IV, the application
specification including the claims, and any drawing of the application, or that portion of
the application which caused it to be listed including any claims directed to that portion
and (iv) all other information or that portion which caused it to be listed.

B. Any patents, publications or other information which are listed on Form PTO-1449 or on the copies of Form PTO-892, but which are not enclosed herewith,

Art Unit

were previously cited by or submitted to the PTO in one of the following applications which has been relied upon for an earlier filing date under 35 U.S.C. § 120:

U.S. Serial Number	U.S. Filing Date
C. Because the present application was/is of the U.S. patents or U.S. patent applicat attached Form PTO-1449 are enclosed § 1.98(a)(2)(i). Any foreign patent docume attached Form PTO-1449 are enclosed herev	tion publications which are listed on the pursuant to the waiver of 37 C.F.R. ents or non-patent literature listed on the
D. This is a PCT application in the entry of A copy of the International Search Report is The documents listed on the International Search PTO-1449 for consideration by the Examin from this application. Since the International JPO search authorities, copies of these references used to the entry of the property of the	s attached for the Examiner's information. arch Report are listed on the attached Form her and for listing on any patent resulting I Search Report was from the US, EPO, or berences should have been supplied to the dare believed to be in the file of the
CONCISE EXPLANATION OF THE RELE	EVANCE (check at least one box)
A. Except as may be indicated below in (information are in the English language (con	B), all of the patents, publications or other cise explanation not required).
B. A concise explanation of the releval information listed that is not in the Englis § 1.98(a)(3)):	nce of each patent, publication or other h language is as follows (see 37 C.F.R.
	office communication from a counterpart Office Action dated August 31, 2006 ed for:
C. The following additional information.	ation is provided for the Examiner's
CROSS REFERENCE TO RELATED APPL	LICATION(S)
A. The Examiner is advised that the follosubject matter that may be related to the preapplication(s) to the Examiner's attention confidentiality provisions of 35 U.S.C. § 122	esent application. By bringing this(these) a, Applicant(s) does(do) not waive the

Filing Date

III.

IV.

Serial No.

THIS IDS IS BEING FILED UNDER
A. 37 C.F.R. § 1.97(b): (check <u>only</u> one box)
1. within three months of the filing date of a national application other than a continued prosecution application under 37 C.F.R. § 1.53(d) (37 C.F.R. § 1.97(b)(1)). No fee or certification is required.
2. within three months of the date of entry of the national stage as set forth in 37 C.F.R. §1.491 in an international application (37 C.F.R. § 1.97(b)(2)). No fee or certification is required.
3. before the mailing of a first Office Action on the merits (37 C.F.R. § 1.97(b)(3)). No fee or certification is required. In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97(c) and see the certification under 37 C.F.R. § 1.97(e) below; or, if no certification has been made, charge our deposit account a fee in the amount of \$180.00 as required by 37 C.F.R. § 1.17(p).
4. before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No fee or certification is required.
B. 37 C.F.R. § 1.97(c): (check <u>only</u> one box)
before the mailing date of either any Final Office Action under 37 C.F.R. § 1.113, a Notice of Allowance under 37 C.F.R. § 1.311, or an action that otherwise closes prosecution.
1. No certification; therefore, a fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).
2. See the certification below. No fee is required.
C. 37 C.F.R. § 1.97(d):
after the mailing date of either a Final Office Action under 37 C.F.R. § 1.113 or a Notice of Allowance under 37 C.F.R. § 1.311, yet on or before payment of the issue fee.
1. See the certification below. A fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).

V.

VI. CERTIFICATION UNDER 37 C.F.R. § 1.97(e): (check only one box) The undersigned hereby certifies that: A. A each item of information contained in this IDS was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(1)). See further statement under 37 C.F.R. § 1.704(d) below in section VII, if applicable; or B. no item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(2)). C. Some of the items of information were first cited in a communication from a foreign patent office. As to this information, the undersigned hereby certifies that each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby certifies that no item of this remaining information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS. VII. STATEMENT UNDER 37 C.F.R. § 1.704(d) The undersigned hereby states that: each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this IDS. PAYMENT OF FEES (check only one box) VIII. A. No fee is believed to be due in light of the above-noted status or above-provided certification. B. A check in the amount of \$180.00 is enclosed for the above-identified fee.

C. Please charge Deposit Account No. 08-0750 in the amount of \$180.00 for the

above-indicated fee. A duplicate copy of this paper is attached.

The above references are being cited only in the interest of candor and without any admission that they constitute statutory prior art, contain matter which anticipates the invention, or which would render the same obvious, either singly or in combination, to a person of ordinary skill in the art. Furthermore, this Information Disclosure Statement shall not be construed as a representation that a search has been made.

If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition if necessary) and charge the appropriate fee to Deposit Account No. 08-0750.

Please charge any additional fees or credit any overpayment pursuant to 37 C.F.R. §§ 1.16 or 1.17 to Deposit Account No. 08-0750.

Respectfully submitted,

HARNESS, DICKEY

A PIERCE, P.L.C.

Bv

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Enclosures:

Form PTO-1449

Korean Office Action dated August 31, 2006

ATTORNEY DOCKET NO. SERIAL NO. FORM HDP-1449 (Based on Form PTO-1449) 6661-000039/US 10/785,067 APPLICANT PATENT AND TRADEMARK OFFICE (Use several sheets if necessary Eun Joo Jang et al. FILING DATE **GROUP** SEP 2.5 5000 Sheet 1 of 1 February 25, 2004 2822 **U.S. PATENT DOCUMENTS** Class/ (If appropriate) Examiner's Document Ref. Subclass Filing Date Date Name Initials Number Desig. 6/10/2003 Bawendi et al. US 6,576,291

FOREIG	FOREIGN PATENT DOCUMENTS					
Ref. Desig.	Examiner's Initials	Document Number	Date	Country	Class/ Subclass	Translation Yes No

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)		
Ref. Desig.	Examiner's Initials	
		Korean Office Action dated August 31, 2006
-		

Examiner:	Date Considered: